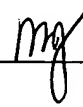
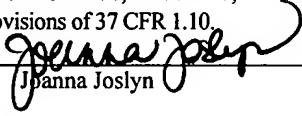


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|--|--|---|--|--|--|
| FORM PTO-1390<br>(REV 12-2004)   |  | U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE |  | ATTORNEY'S DOCKET NUMBER<br><b>4240-121</b>  |  |
| <b>TRANSMITTAL LETTER TO THE UNITED STATES</b><br><b>DESIGNATED/ELECTED OFFICE (DO/EO/US)</b><br><b>CONCERNING A FILING UNDER 35 U.S.C. 371</b>  |  |   |  | U.S. APPLICATION NO. (If known, see 37 CFR 1.5)<br><div style="font-size: 1.5em; font-weight: bold; text-align: center;">10/538608</div> |  |
| INTERNATIONAL APPLICATION NO.<br><b>PCT/KR2004/000189</b>  |  | INTERNATIONAL FILING DATE<br><b>3 February 2004</b>     |  | PRIORITY DATE CLAIMED<br><b>4 February 2003</b>  |  |
| TITLE OF INVENTION<br><b>METHOD FOR PRODUCING A USEFUL COMPOUND AND TREATING A WASTEWATER...</b>   |  |   |  |  |  |
| APPLICANT(S) FOR DO/EO/US<br><b>CHANG, et al.</b>  |  |   |  |  |  |
| Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:  |  |   |  |  |  |
| <ol style="list-style-type: none"> <li>1. <input checked="" type="checkbox"/> This is a <b>FIRST</b> submission of items concerning a filing under 35 U.S.C. 371.</li> <li>2. <input type="checkbox"/> This is a <b>SECOND</b> or <b>SUBSEQUENT</b> submission of items concerning a filing under 35 U.S.C. 371.</li> <li>3. <input type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371 (f)). The submission must include items (5), (6), (9) and (21) indicated below.</li> <li>4. <input checked="" type="checkbox"/> The US has been elected (Article 31).</li> <li>5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371 (c)(2))           <ol style="list-style-type: none"> <li>a. <input checked="" type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau), as published.</li> <li>b. <input checked="" type="checkbox"/> has been communicated by the International Bureau.</li> <li>c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US).</li> </ol> </li> <li>6. <input type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371 (c)(2)).           <ol style="list-style-type: none"> <li>a. <input type="checkbox"/> is attached hereto.</li> <li>b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4).</li> </ol> </li> <li>7. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))           <ol style="list-style-type: none"> <li>a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau).</li> <li>b. <input type="checkbox"/> have been communicated by the International Bureau.</li> <li>c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired.</li> <li>d. <input checked="" type="checkbox"/> have not been made and will not be made.</li> </ol> </li> <li>8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).</li> <li>9. <input checked="" type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). (Unsigned)</li> <li>10. <input type="checkbox"/> An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).</li> </ol> |  |   |  |  |  |
| <b>Items 11 to 20 below concern document(s) or information included:</b>   |  |   |  |  |  |
| <ol style="list-style-type: none"> <li>11. <input checked="" type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98.</li> <li>12. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.</li> <li>13. <input checked="" type="checkbox"/> A preliminary amendment.</li> <li>14. <input type="checkbox"/> An Application Data Sheet under 37 CFR 1.76.</li> <li>15. <input type="checkbox"/> A substitute specification.</li> <li>16. <input type="checkbox"/> A power of attorney and/or change of address letter.</li> <li>17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 – 1.825.</li> <li>18. <input type="checkbox"/> A second copy of the published international application under 35 U.S.C. 154(d)(4).</li> <li>19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).</li> <li>20. <input type="checkbox"/> Other items or information:</li> </ol>   |  |   |  |  |  |

|   |                       |   |  |   |    |
|---|-----------------------|---|--|---|----|
| <b>10/538608</b><br>U.S. APPLICATION NO. (if known) (37 CFR 1.53)   |                       | INTERNATIONAL APPLICATION NO.<br><b>PCT/KR2004/000189</b>                     |  | ATTORNEY'S DOCKET NUMBER<br><b>4240-121</b> |    |
| 21. The following fees are submitted:   |                       |   |  |   |    |
| <input checked="" type="checkbox"/>   | a) Basic national fee | \$300.00  | \$300.00   |   |    |
| <input checked="" type="checkbox"/>   | b) Examination fee    | \$200.00  | \$200.00   |   |    |
| <input checked="" type="checkbox"/>   | c) Search fee         | \$500.00  | \$500.00   |   |    |
| TOTAL OF ABOVE CALCULATIONS =   |                       | \$1000.00   | \$1000.00  |   |    |
| <input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer listing filed in an electronic medium). The fee is \$250.00 for each additional 50 sheets of paper or fraction thereof.   |                       |   |  |   |    |
| Total Sheets  | Extra Sheets          | Number of each additional 50 or fraction thereof (round up to a whole number) | RATE   |   |    |
| 69 - 100  | 0/50 =                |   | x 250.00   | \$0.00                                      |    |
| Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(e)).  |                       |   |  | \$ 0.00                                     |    |
| CLAIMS  | NUMBER FILED          | NUMBER EXTRA  | RATE   | \$  |    |
| Total claims  | 6 - 20 =              | 0   | X \$50.00  | \$0.00                                      |    |
| Independent claims  | 2 - 3 =               | 0   | X \$200.00   | \$0.00                                      |    |
| MULTIPLE DEPENDENT CLAIM(S) (if applicable)   |                       |   | + \$360.00   | 0   |    |
| TOTAL OF ABOVE CALCULATIONS =   |                       |   |  | 1000  |    |
| <input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2.   |                       |   |  |   |    |
| SUBTOTAL =  |                       |   |  | \$500.00                                    |    |
| Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f)).   |                       |   |  | \$ 0.00                                     |    |
| TOTAL NATIONAL FEE =  |                       |   |  | \$ 500.00                                   |    |
| Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property  |                       |   |  | \$ 0.00                                     |    |
| TOTAL FEES ENCLOSED =   |                       |   |  | \$500.00                                    |    |
|   |                       |   |  | Amount to be:                               | \$ |
|   |                       |   |  | refunded                                    |    |
|   |                       |   |  | charged                                     | \$ |
| a. <input type="checkbox"/> A check in the amount of \$ _____ to cover the above fees is enclosed.  |                       |   |  |   |    |
| b. <input type="checkbox"/> Please charge my Deposit Account No. <u>08-3284</u> in the amount of \$ _____ to cover the above fees. A duplicate copy of this sheet is enclosed.  |                       |   |  |   |    |
| c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any deficiencies in filing fees which may be required, or credit any overpayment to Deposit Account No. <u>08-3284</u> . A duplicate copy of this sheet is enclosed.             |                       |   |  |   |    |
| d. <input checked="" type="checkbox"/> Fees are to be charged to a credit card. <b>WARNING:</b> Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038. |                       |   |  |   |    |
| <b>NOTE:</b> Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status.  |                       |   |  |   |    |
| SEND ALL CORRESPONDENCE TO:   |                       |   |  |   |    |
| Steven J. Hultquist<br>INTELLECTUAL PROPERTY/<br>TECHNOLOGY LAW<br>P.O. BOX 14329<br>Research Triangle Park, NC 27709   |                       |   | SIGNATURE <br>Steven J. Hultquist<br>NAME<br>28021<br>REGISTRATION NUMBER |   |    |

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**In re United States Patent Application of:****Applicant(s):** CHANG, et al.**Application No.:** New U.S. National Stage Application  
of PCT International Application No.  
PCT/KR2004/000189**Int'l Filing Date:** 3 February 2004**Priority Date:** 2 April 2003 (Korean Patent  
Application No. 10-2003-0007045)**Title:** METHOD FOR PRODUCING A  
USEFUL COMPOUND AND  
TREATING A WASTEWATER  
USING PURE OXYGEN**Docket No.:** 4240-121**Examiner:** Not Yet Assigned**Art Unit:** Not Yet Assigned**Customer No.:****23448****EXPRESS MAIL CERTIFICATE**

I hereby certify that I am mailing the attached documents to the  
Commissioner for Patents on the date specified, in an envelope addressed to  
Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 and  
Express Mailed under the provisions of 37 CFR 1.10.

  
Joanna Joslyn

June 9, 2005

Date

EO 004 986 487 US

Express Mail Label Number

**SUBMISSION UNDER 35 U.S.C. §371 OF UNITED STATES PATENT APPLICATION  
(NATIONAL PHASE PROCEEDINGS) BASED ON INTERNATIONAL APPLICATION NO.  
PCT/KR2004/000189 AND CLAIMING PRIORITY OF KOREAN PATENT APPLICATION NO.  
10-2003-0007045**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Submitted herewith for filing under the provisions of 37 CFR §1.53 and 35 U.S.C. §371 is the above-  
referenced patent application, based on International Patent Application No. PCT/KR2004/000189 and

claiming priority of Korean Patent Application No. 10-2003-0007045. A copy of the PCT International application as originally filed is included herewith. Further included is a Preliminary Amendment, return postcard, a credit card form in the amount of \$500.00 and 35 U.S.C. §371 transmittal forms.

Please direct correspondence relating to this application to Steven J. Hultquist, Intellectual Property Technology Law, P.O. Box 14329, Research Triangle Park, NC 27709, and direct telephonic communications relating to this application to Steven J. Hultquist at (919) 419-9350.

Respectfully submitted,



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Steven J. Hultquist  
Registration No. 28,021  
Attorney for Applicants

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